

# GLORIA IMPORT CZ s.r.o.

Ukrajinská 728/2 10100 Praha 10  
značka C 178803

zapsána Městský soud v Praze spisová

Czech Republic, IČ: 28579097, DIČ CZ28579097

## Certificate of Analysis

Product Name	Milk Thistle Extract	Latin Name	Silybum marianum (L.) Gaertn
Part used	Seed	Origin of Material	China
Batch No.	MT14060921	Manufacturing Date	2014-06-09
Butch Quantity	1000KG	Expiration Date	2017-06-08

ITEM	SPECIFICATION	RESULTS
Appearance	Amorphous Powder	Conforms
Colour	Yellow to Yellowish-Brown	Conforms
Odour	Slight, Specific	Conforms
Solubility		
- in Water	Practically Insoluble	Conforms
- in Methanol and Acetone	Soluble	Conforms
Free from Foreign Matter.	-----	Conforms
<b>Identification</b>		
- TLC	To Comply with The Test	Conforms
- HPLC	To Comply with The Test	Conforms
Loss On Drying (2 Hours 105 °C)	≤ 5.0%	3.0%
Sulphated Ash	≤ 0.6%	0.1%
Heavy metals	≤ 20 ppm	Conforms
- Arsenic - Atomic Absorption	≤ 3.0 ppm	Conforms
- Cadmium - Atomic Absorption	≤ 1.5 ppm	Conforms
- Lead - Atomic Absorption	≤ 0.5 ppm	Conforms
Partical size	90% pass 80 mesh	Conforms
Assay of Silymarin (UV test, per cent)	≥ 80	80.7
Assay of Silymarin (HPLC, determined as silybin, per cent)	From 40,0 to 80,0	46.8
- sum of silycristine and silydianine (HPLC, per cent of the total content of silymarine)	From 20,0 to 45,0	
- sum of silybin A and silybin B		

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(HPLC, per cent of the total content of silymarine)	From 40,0 to 65,0	55.1
- sum of isosilybin A and isosilybin B (HPLC, per cent of the total content of silymarine)	From 10,0 to 20,0	13.0
Residual Solvents		
- Acetone	≤ 5000 ppm	Conforms
Residual Agrichemicals		
- Total BHC (Sum of $\alpha$ , $\beta$ , $\gamma$ and $\delta$ -BHC)	≤ 0.2 ppm	Conforms
- Total DDT (Sum of p,p'-DDD, P,P'-DDE, o,p'-DDT and p,p'-DDT)	≤ 0.1 ppm	Conforms
- Aldrin	≤ 0.1 ppm	Conforms
- Endrin	≤ 0.1 ppm	Conforms
- Dieldrin	≤ 0.1 ppm	Conforms
<b>Microbiological (Total viable aerobic count)</b>		
- bacteria	≤1000 cfu/g	Conforms
- moulds and yeasts	≤100 cfu/g	Conforms
- E.coli, Salmonella, S. aureus, CFU/g	Inadmissible	Negative
- Pseudomona	----	Qualified

- **Conclusion: Conform with specification.**
- **Appearance: This is a natural product and there may be color variations from lot to lot due to the crop fluctuations from harvest to harvest.**
- **Storage: Store in sealed containers at cool & dry place. Protect from light, moisture and pest infestation.**
- **Shelf life: 3 years when properly stored.**

Quality Assurance Officer: Keqiang Zhang

Analyst: Mian Wang

